This department is under the direction of Mr. W. E. Defty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republican would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department Arizona Republican.

are aware of the extent and value of was purdished in 1910. feet deep, with 2000 feet of tunnelling Engineering and Mining Journal of grade ore, 200,000 tons of low grade cided interest to all those connected and 45,000 to 50,000 of high grade ore, or interested in mining The property has been examined by three separate mining engineers, all the physical examination of emorf when reported highly favorable, physical examination of employes to prevent the placing of unit Hall and William S. Jennings, the Men seeking employment, or having latter being superintendent in charge secured position through the employ-

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Commission.
It is intended that such examination all immensionally be paid more attention to at the assured success and if not greater, benefit to each indi-

Arizona State Bureau of Mines Mr. Charles F. Willis; has distributed panies, which are making provision

ee at a glance the names of the mation at least once a year. The prevals and the localities where they object is to enable men to anticipate

As stated, the compilation is from ailments, on the theory that "8 United States Geological Survey Re- stitch in time save nine." outs and other sources. One of the Important Developments Near Phoenix other important sources, is evidently it is a safety-first proposition, a Brief notices have appeared from The mineralogy of Arizona, by P. N. measure to promote accident preventime to time in this column regarding Golds, who was Professor of Chemthe Max Delta gold property nine istry and Mineralogy, University of wherein he will not be a menace to unless due south of this sity. But few arraons. This interesting little work himself or to his felow workers. Rel-

atively speaking, the hazards of every the holdings. We now give some an- | The bulletin is a finnely reference to workman's occupation are affected by thentic facts and figures in connect keep on file is in clear, distinct many elements of chance, human tion with the undertaking. The group print, and will expedite better than error, negligence and ignorance—but comprises 24 mining claims, eight of any other course the location of any there is no reason why an employe the principal ones being patented. The mineral at any point in Arizona and should be subject to further danger, until shaft has remaded a depth of 500 no doubt it will be greatly sought the unseen, invidious menace of a felfeet. At intervals in the shaft four after, especially as it can be obtained low employe's physical unfitness for levels are run, totalling in drifts and free from the university. In the world not like it, would you, to risk your life

There are three other shafts over 100 The following arrive is from the practically all in ore. The aggregate November 5th. The contents are so heart disease and who might collapse formage already blocked out is aps clearly and forcibly expressed that proximately 50,000 tons of medium they cannot help but be of very de-

Physical Control of Employes

There has been on attempt at boom- men in responsible position has been ing or selling of stock, members of instituted by many firms and corporathe company are all experienced min- tions. It has always been attended ing men and are providing all re- with good results so far as efficiency quired funds for development and in the work and satisfaction to the equipment of the property. The pro- employe have been concerned; never-ident of the country is ex-United theless, the practice has always been States Senator Lee Montie of Butte, more or less opposed by the laborers tally, to control that muchine in case Montana, who has extensive mining themselves, in instituting the practice of emergency, would you? If hazards interests in that state, Joseph of the works of the Nevada Consolis of this nature can be done away with. Thompson is vice president, Isnac date Copper Co., the authorities have you would be willing to help, wouldn't Bucharach, secretary-treasurer, and taken pains to explain the reasons. Frank Haskins, assistant secretary- for doing so and the effect it will treasurer. The directorate is com- have upon employes, This explanation posed of the previously mentioned is so clear and reasonald that it worth required their medical departments to names, with the addition of Edward while reproducing here:

ment department, will be put to work The community anticipates the erect subject to medical examination." It has largely eliminated a serious haz tion of a mill within the next year, will be required of every man em-water for reduction plant will be placed to asbruit biraself for physical which they might otherwise, anknown pumped two miles to an elevation of examination immediately upon enter- to themselves, he subject. 250 feet. The plant will be a large ing the service of the company, or one, but what actival capacity per during the time he is seeking em day has not yet been definitely desployment is he so desires. it will also be requested that em

When the mill is in operation prob- ployes now on the pay rall shall take abiy 500 mon will be employed and advantage of the opportualty to be in years. Never before has he seen the pay roll and expenditure: will examined. This task of examining such a sound condition, and he preamount to somewhere about \$40,000 engloves will be commetced at once and will be spread over such period soon unless all signs fail and the The owners are acting very can- of time as may be necessary to its buying of the metal ceases abruptly. tionsh and carefully and want to accomplishment taking into considerathe sure of enough ore in sight to tion the convenience of the medical spot cooper, this authority stated, operate the mill at least three years department and of employes. Embefore installing the reduction and playes need not worry over the result metal available before January 1.

It is probable the government will be before any thrills of terror or its ear there is not a great quantity to the probable to the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the first month of next and the probable the government will be the government will be the first month of next and the probable the government will be the government will be the first month of next and the government will be the government the government will be the government will be the government will be the government will be the government of the government will be the government of the government will be the government of the government of the government will be the government of the government run the Roosevell power line to the "hurting" them in any way, phy-

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to replenish their supplies they will se forced to pay higher prices than those ruling at present."

Shipments from the United Verde

So far as the company is concerned,

daily on a cage controlled by a hoist

engineer who might be subject to

at any moment and drop you into

the dump, or drag you up into the

sheaves. You would not like it, would

you. Mr. Smelterman, if a dinkey en-

around the yard, endangering the lives

or was unable to determine the colo

of signal flags or hamps? You, Mr.

in this country and in Europe have

render this service, and not one word

because men have come to see and

understand that physical examination

A View on Copper

ket states that the present position of the metal is the best it had been

dicts, that 10c a pound will be reached

"There is an absolute scarcity of

and in fact there is not much of the

A large interest in the copper mar-

farch and for the six months up to eptember they aggregated \$341,265 r at the rate of \$700,000 per minum hese shipments have been at the are of only 35 tons per day, but the For quick and accurate reference to the live Phoenix ns per day, while the hoist has a mun body- it begins to decom automobile and accessory dealers and repair shops, use this directory. Prompt, efficient treatment is their aim he upraise has proved the ore from e 1200-foot level to the 100-foot level ad every confidence is felt in the ore stending downward, although no efguaranteed; also storage. Visit our clean daylight shop. A trial job will tell rt as vet has been made to reach the se on the lower or 1400-foot level HOWARD GARAGE, D. E. Howard, Prop. is probable now that the new hols in working order that the drift or 1100-foot level will be carried over W. W. CATLIN COMPANY, State Agents nder the ore body found on the lgher levels. Shipments of high grade ore have Phone 1450

in between 30 and 50 per cent copr, while second grade has run bewen 13 and 26 per cent copper. Shipments have been going to th opper Queen smelter and the ore has en carried out on mule backs, but he tramway is now practically comdeted and will connect the mine with cilitated and expenses reduced.

308-310 E. Adams St.

Maricepa County Agent for Firestone Shattuck-Arizona Duluth.-A report for 26 days ended ctober 31, has been received at the ffice of the Shattuck company from mine superintendent, Arthur me mentioned was 1707 feet, and un-

aming 6 per cent copper. Raise 150 on the 400-foot level has SOUTHWESTERN CARBURETOR CO

erground workings continue to show

wonderful richness of the famous

ent copper, with good values in gold Tea and Sulphur recipe at home

A high grade ore body between the 400 and 200-foot levels is to be sign any release or undertaking which will affect in any way their present pened up and it is expuosing more nospital agreement or existing relare timen was anticipated. A portion tions with the Nevada Industrial of this block of ground runs to per ent in copper and is of the oxide ships after her in the near fature grade. This portion is adding great-

cidual than it will be to the company. it will be practically in line with the evel has advanced 41 feet through si- questions of general interest to te Entiretin No. 3-Purectors of Arizona for free medical examination for their face shows abundant corner stains, was this "Where is the Grand Can Atherids. The firstle pampillet is unputrons and origing all their policy which with further development, is you' Out of the entire class, and expected to encounter a body of oxide one gave the proper location-Ariholders to submit to medical examupper ore about \$9 feet above the Rona

> and ward off the approach of physical imie at the rate of lee tons per day. Catman stands today in the same being 459 tons of copper ore and the titude towards idle capital as stan remander lead ore

> > Arizona Copper Co. o its plant. Arizona Copper would finger is continually saying; ive had the best year in its history. The first half of the month of Sep tember the mines produced 1500,000

pounds of cupper.

ona has recently doubled its plant, developments made it necessary to arrange for further substantial exten-

Calumet and Arizona

The report that the Shattuck-Arizo the value of millions in its 120 acres is of interest to Calamet and Arizona. and to Copper Queen, both extensive giner should run amuck with his on-

The Bibbee ore body dips slowly from Shattuck-Arizona, where it is ound at a doubt of a few hundred fround through which it continues for ver two miles to a maximum depth 200 feet. It is probable that ores. the Shattnek-Arizona will persist own the incline of the mineral zone nto Calculet and Arizona territory hich is fifteen times larger.

VARIETY IN EXPLOSIVES

fundreds of Kinds are Known, But the Most Unstable is ledice of Nitrogen, Which a Fly Can Explode

Explosives are solids which under ctain conditions, suddenly change o heated gas occupying man mes the original space of the solid rdinary gunpowder when fired, turn do gas, of which the volume is 400 wonder the bullet in front or caves the muzzle of the wife in

reas, of different sorts of explosiv town to science. Some such as Iyd rous to handle for a few extra deroes of warmth or a very slight far
massurement to turn them instantly
of two German Silver Springs, hatte

Of the latter type there is nothing and self-adjusting to all functions are unstable as ionide of nitrogen. It has to be made in alcohol. When

The more morning of the air by a xtension mine were started last and it need hardly be added that no one in his senses would attempt t nake this terrible stuff. To do so." any quantity would be equivalent to

Nitro-glycerine is not as this leddle, but at a temperatur if only 100 degrees-that is, very lit could be shipping at the rate of 100 de more than the warmth of the hu out every day, for it in the explo from which guncotten is made. B coded by colls of cold water pipes.

LINES TO BE REMEMBERED

you get up that you have semething do do that day which must be dor erced to work and forced to do you est will breed in you a hundre

Hire a little salesman at The Re-

oblican office. A want Ad will se

She made up a mixture of Sage Tea and Sulphur to bring back color gloss, thickness

Common garden sage brewed into a heavy tea with sulphur and alcohol added, will turn gray, streaked and dvanced to feet through ovide ore, faded hair beautifully dark and luxuriscalp liching and falling hair. Just a dvanced 37 feet, and the last 20 few applications will prove a revelation et has encountered high grade if your hair is fidling, gray or dry, cycle or, which will average 30 per straggly and thin. Mixing the Sage though, is troublesome. An easier way Raise 157 on the 400-foot level will is to get the ready-to-use tonic, costing icw a good silicious copper ore bear- about 50 cents a large bottle at drog ng territory, and material thus far stores, known as "Wyeth's Sage and ut carries good values in gold and Sulphur Compound," thus avoiding lot of muss.

While wispy, gray, faded hair is not ow 93 feet high having advanced 35 sinful, we all desire to retain our et through high grade lead and cop- youthful appearance and attractiveer ore. Raise 150 on the 500-foot ness. By darkening your hair with evel will develop high-grade gold and Wyeth's Sage and Sulphur, no one can liver ore about 41 feet above the tell, because it does it so naturally, so evenly. You just dampen a sponge or Crosscut 61 on the 600-foot level is soft brush with it and draw this through your hair, taking one small

(Continued from Page Six)

I spent last winter in an easte as fill be made shall be of as great, by to the ore reserves. Between the city—the seat of one of those great and 600-foot levels a large lead state universities. One day has Fob ruary the professor of a class or reserve is being established. Fuary the professor of a class Crosscut No. 11 on the 200-foot philosophy asked his class for icious ledge matter and the present their sciolism. Among the numb

> Again I predict that Carmon wi Shipmen's from the property con- give Arizona desired publicity a the tail; long-frocked, sunte gentle man who meets you at the door Excepting for the strike which tied with a how and crook of his index "This Way Please

> > ST. NICHOLAS MAGAZINE NOTES The December St. Nicholas, it i

mounced, will be altogether Thristmas number, The seasonabl feacures will include an Arthur Rackham frontispecs in colors: special cover designed by Will Brai ley, a Christmas play, "Mr. 3 Claus Predictment," which childre will be able to not for themselve Anna Belle's Christmas Eve." Josephine Serliner Gates, which Arma Belle interviews Christmas fairs and discovers) serve its "The Spirit of Chil as story by Born H. Hook Fir Tree," a Hans Andersonson turnide by Carolyn Wells; "The Fa of the Christmas Pie," a rollici sillnd by Eilen Manly, who piern color by Regimald B. Birch. Ott avorite (Businuors who will c ribute special Christmas illus re Minurico L. Bower, C. C. Squires, C. M. Helyes and Fancy fory. These Christmas features :

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ticity to the foot and prevents flat foot with

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ad or territory. Raise 151 on the strand at a time; by morning all gray The Oldest Automobile Tire Job-600-foot level is 167 feet in height hairs have disappeared, and, after an-bing Concern in the United States "ASK FOR DRAYTON" Saxon "6" Touring\$875 Here and this working will develop 61 feet other application or two, your hair of high grade lead ore which will becomes beautifully dark, glossy, soft average 22 per cent lead and 32 in and luxuriant. public and Standard Trucks, 1/2 to 5 Tons

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